



Building brains through early talk

Senior Algorithm Engineer: Speech Processing and Machine Learning

LENA, a social impact technology organization located in Boulder, Colorado, has developed amazing hardware and software that is making a difference for children and families around the world. We continue to grow and are looking for a talented **Senior Algorithm Engineer** specializing in speech processing and machine learning to advance our state-of-the-art products.

The LENA System™ is the global gold standard for measuring talk in early childhood. We analyze a child's natural language environment to automatically produce and report various metrics with the goal of motivating parents and caregivers to enhance language interaction. In addition, innovative statistical methods are applied to automatically assess language development and progress.

You will be responsible for designing, developing and implementing advanced algorithms to take LENA's technology to the next level. You will collaborate with leading scientists in child language development, speech and hearing science, and computer science. This represents a unique opportunity to work on the front line of this multidisciplinary area. This is a full-time position, although contractor relationships may also be considered. **Come, join our acclaimed team in the foothills of the Rockies and make a meaningful difference in the world.**

Qualifications:

- Direct experience in one of these areas: speech processing, statistical processing, pattern recognition, machine learning, deep learning, or digital signal processing.
- PhD or Masters in an appropriate discipline and 2+ (PhD) or 5+ (Masters) years industrial experience post degree.

Additional Requirements:

- Strong analytical and quantitative problem-solving skills.
- Experience in Speaker Diarization, Speaker Verification/Identification, and related areas.
- Thorough understanding of machine learning techniques, with emphasis on deep learning.
- Experience developing and delivering computationally complex, algorithm solutions for real world use cases.
- Fluent in Perl, C/C++, Python, and other appropriate programming languages.
- Solid working knowledge of Linux programming environments.
- Familiarity with SDLC concepts and processes.
- Consistently strong attention to detail and references back that up 100%.
- Demonstrated collaborative leadership skills, encouraging productive development within a multidisciplinary team.
- Strong oral and written communication skills.
- Outstanding organization and project management skills.

Nice to Haves:

- Understanding and experience related to child vocal development, child language development, or child developmental psychology.
- Familiarity with linguistics and language development research.

Salary/Benefits:

LENA offers a fun, close knit, professional, and supportive work environment along with an excellent benefits package including medical, dental, vision, life/disability, HSA/FSA, 401(k) including employer match, & Paid Time Off and a competitive salary. To apply, please submit cover letter with salary requirements and resume as a single pdf document to hr@lena.org. To learn more visit us at www.lena.org/joinourteam.

EOE/M/F/D/V